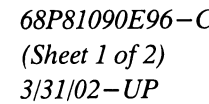
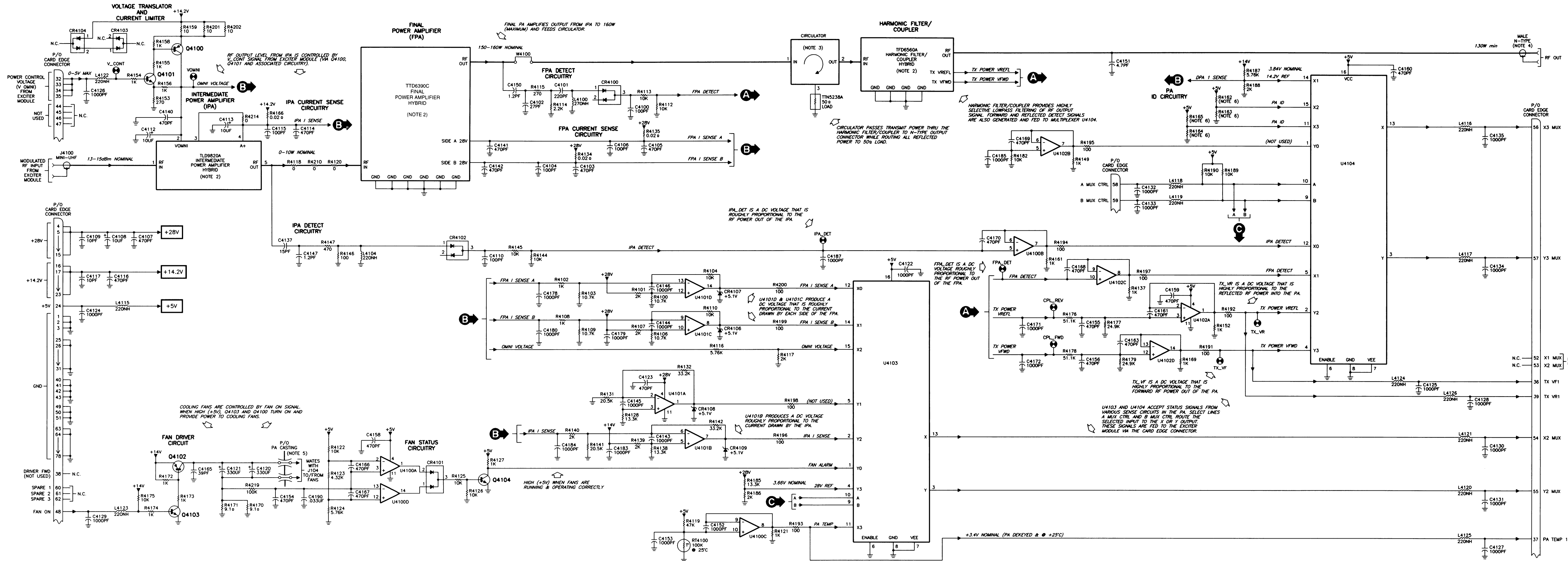


MODELS TLD3101G / TLD3102G



ILEPS-48781-B
(2 OF 2)

125W VHF POWER AMPLIFIER MODULE
MODELS TLD3101G / TLD3102G



- NOTES:
1. UNLESS OTHERWISE INDICATED, ALL RESISTOR VALUES ARE IN OHMS. CAPACITOR VALUES ARE IN PICOFARADS AND INDUCTOR VALUES ARE IN MILLIHENRIES. N.C. DENOTES NO CONNECTION.
 2. TLD9820 IPA, TLD9810 FPA AND TFD6560 LOW-PASS FILTER/COUPLER ARE HYBRIDS AND ARE CONSIDERED NON-REPAIRABLE. REPAIR IS BY REPLACEMENT OF ENTIRE HYBRID.
 3. THE MOTOROLA PART NUMBER FOR THE CIRCULATOR IS 5884911T19 (TLD3101; 125W, R1) OR 5884911T20 (TLD3102; 125W, R2).
 4. THE N-TYPE OUTPUT CONNECTOR (0900816159, P/O TTN5069A HARDWARE) IS SOLDERED ONTO THE REVERSE SIDE OF THE RF/DC DISTRIBUTION BOARD.
 5. CONNECTIONS TO THE COOLING FANS ARE MADE VIA FEEDTHRU CAPACITORS (1000PF, P/O TTN5069A HARDWARE).
 6. RESISTORS R4162 THRU R4165 COMPRISE A "RESISTOR ROW" WHICH IDENTIFIES THE BAND, RANGE AND OUTPUT POWER OF THE PARTICULAR PA MODULE. THE RESISTORS ARE PLACED AS SHOWN IN THE TABLE BELOW.

MODEL	R4162	R4163	R4164	R4165
TLD3101 (VHF; 125W, R1)	20.5K	10K	0 Ω	NOT PLACED
TLD3102 (VHF; 125W, R2)	NOT PLACED	0 Ω	0 Ω	NOT PLACED

INTEGRATED CIRCUIT POWER AND GROUND CONNECTIONS				
REF DESIG	TYPE	DESCRIPTION	SUPPLY PIN	GROUND PIN
U4100	MC33074	HIGH PERFORMANCE OPERATIONAL AMPLIFIER	4	11
U4101	MC33074	HIGH PERFORMANCE OPERATIONAL AMPLIFIER	4	11
U4102	MC33074	HIGH PERFORMANCE OPERATIONAL AMPLIFIER	4	11
U4103	74HC4052	ANALOG MULTIPLEXER/DEMULTIPLEXER	16	8
U4104	74HC4052	ANALOG MULTIPLEXER/DEMULTIPLEXER	16	8